

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

December 15, 2010

TO: File *DDA for*
THRU: James D. Smith, Permit Supervisor
FROM: April A. Abate, Environmental Scientist II *AAA 12-16-2010*
SUBJECT: 2010 2nd Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3556

The Centennial Mine is currently in temporary cessation. No mining or coal processing activities currently take place there, nor is the site in active reclamation. Currently there is an amendment pending to the Division requesting that some of the sludge material from the Crandall Canyon mine be shipped to Centennial for storage in the excess spoil and developmental waste storage area. Sections 711.300 pages 7-2 through 7-10 and Appendix L of the MRP pertain to water monitoring. Water sampling locations are shown on Figure IV-11.

1. Were data submitted for all of the MRP required sites?

Springs

YES ☒ NO ☐

The spring in Deadman Canyon below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring reported no flow during the second quarter of 2010.

Streams

YES ☒ NO ☐

Stream sample 18-3 at the left fork of Deadman wash has not flowed since May 2008, which was right around the same time the mine shut down. Stream sample 18-4 has not flowed since 2005. Both locations are surface water points located below the mine.

Wells

YES ☒ NO ☐

Well #1 was sampled during the 2nd quarter of 2010.

UPDES

YES ☒ NO ☐

All UPDES locations were monitored monthly in accordance with the permit. No

discharge from any of the sample locations was reported for the 2nd quarter of 2010. Discharge has not been reported from any of the UPDES locations since June 2008, which was right around the same time the mine shut down.

2. Were all required parameters reported for each site?

Springs YES ☐ NO ☐

Not applicable this quarter.

Streams YES ☐ NO ☐

Not applicable this quarter.

Wells YES ☒ NO ☐

UPDES YES ☐ NO ☐

Not applicable this quarter.

3. Were any irregularities found in the data?

Springs and Pond YES ☐ NO ☐

Not applicable this quarter.

Streams YES ☐ NO ☐

Not applicable this quarter.

Wells YES ☒ NO ☐

Total and dissolved iron concentrations were outside of two standard deviations for the sample collected from the well during the 2nd quarter of 2010.

UPDES YES ☐ NO ☐

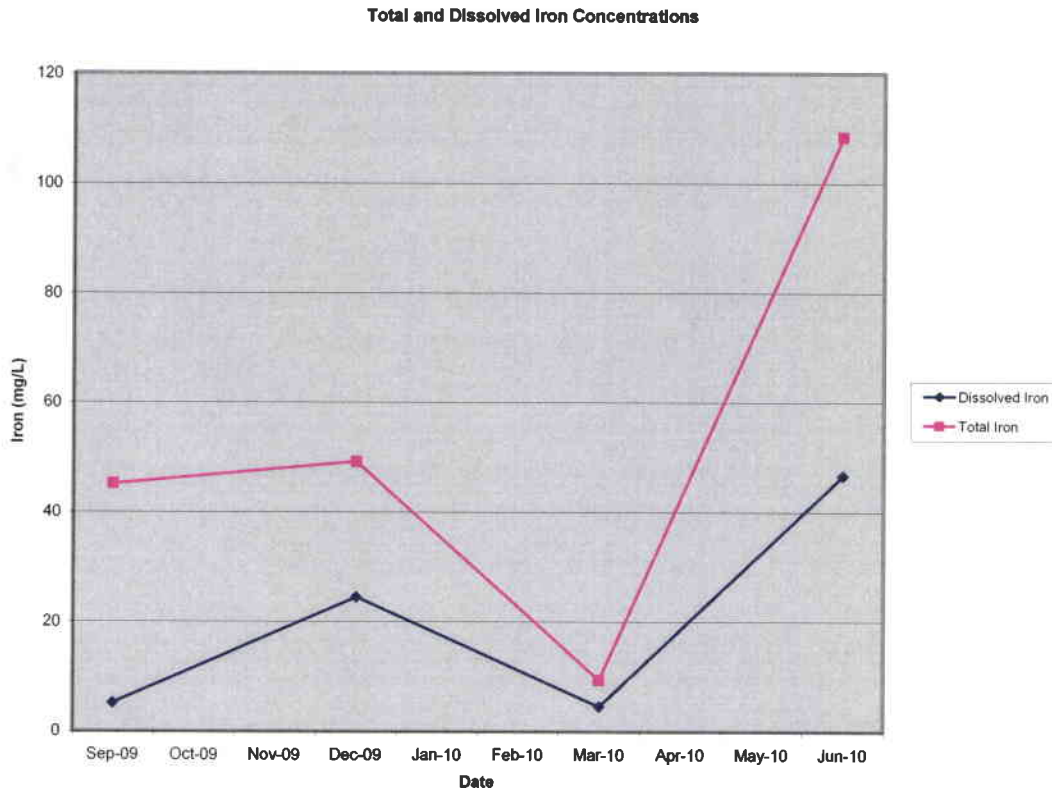
Not applicable this quarter.

4. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data? YES ☒ NO ☐

5. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements? YES ☐ NO ☒

6. Based on your review, what further actions, if any, do you recommend?

Water samples collected from Well #1 are showing a trend of elevated total and dissolved iron concentrations in data collected over the past year. Another evaluation of the well is recommended to determine if the well needs to be repaired and/or redeveloped.



7. Follow-up from last quarter, if necessary.

None